



Vacancy

BIOINFORMATICIAN

with affinity for toxicology/mammalian biology

at TNO, the Netherlands Organisation for Applied Scientific Research

Your Field of Activity:

TNO aims at the development of methods that contribute to reduction, refinement and if possible replacement of animal testing in toxicology. Systems toxicology, which is the integrated analysis of the expression and state and interplay of all biomolecules in an organism has potential to contribute to this. TNO aims at the ultimate application of systems toxicology and bioinformatics for government and companies to contribute to toxicological hazard assessment at an early stage. To further develop its knowledge portfolio in this area, TNO is involved in the recently established Netherlands Toxicogenomics Centre (NTC: www.toxicogenomics.nl). TNO coordinates the bioinformatics for NTC and develops the infrastructure to allow for systems toxicology data analysis. To this aim, we are looking for a bioinformatician, preferably with affinity for toxicology or mammalian biology.

Your Tasks:

- Development of systems biology models and bioinformatics analysis approaches for toxicogenomics (e.g. reproductive toxicity, in particular in vitro fertilization)
- Development of the core bioinformatics infrastructure for NTC. In particular LIMS, tool development and application, and pathway databases.
- Collaboration with other bioinformaticians within NTC
- Development of a satisfactory data sharing policy for toxicogenomics data within NTC that is supported by NTC partners in relation to potential intellectual property interest.
- Collection of genesets and pathways with relevance for reproductive toxicology, carcinogenesis, immune toxicology and target organ toxicology
- Providing data analysis assistance to NTC PhD students and postdoctoral fellows
- Providing assistance to the bioinformatics workpackage coordinator
- Participation in the acquisition of research projects in the area of toxicogenomics and bioinformatics

Your Qualifications

We are looking for a bioinformatician, who is interested in toxicology or mammalian biology (e.g. reproductive toxicology). You are experienced in pathway and network analysis. Further, you have affinity with the development of genomics databases. Molecular biologists, yeast biologists, toxicologists, pharmacologists, medical biologists, health scientists, biochemists etc. with expertise in the area of omics data analysis (transcriptomics, proteomics, metabolomics) are also encouraged to react. The absence of experience with mammalian biology is no major issue, provided that your track record shows proof of swift adaptation to various (applied) bioinformatics problems and the generation of results. Since TNO coordinates the bioinformatics for NTC, you need to collaborate with bioinformaticians and scientists appointed at the different NTC partners. Therefore, next to scientific expertise, you have to possess strong communicative skills. You are results-driven and customer-oriented. We also encourage recently graduated PhD students in this area to apply.

→ **experience: 3-6 years / medior.**

Information:

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TNO is a leading, independent knowledge company whose expertise and research make an important contribution to the competitiveness of companies and organisations, to the economy and to the quality of society as a whole. TNO's unique position comes through its versatility and capacity to integrate knowledge. Some 4300 professionals work at TNO.